

Industrial Electrification Market Forecasts to 2034 – Global Analysis By Product Type (Electric Actuators, Electric Switchgear, Electric HVAC Systems, Power Distribution Units (PDUs), Electrified Excavation Equipment and Electrified Pumping Systems), Sales Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Industrial Electrification Market is accounted for \$52.31 billion in 2026 and is expected to reach \$105.00 billion by 2034 growing at a CAGR of 9.1% during the forecast period. Industrial electrification involves transitioning traditional industrial processes from fossil fuels to electricity-based solutions. This shift improves energy efficiency, lowers greenhouse gas emissions, and advances sustainable practices. Implementing electric machinery, heating systems and automated technologies allows industries to enhance performance while reducing expenses. Utilizing renewable electricity, including solar and wind, further mitigates environmental effects. Additionally, integrating smart grids and energy management systems ensures efficient energy distribution, reliability, and optimized consumption. This modernization not only boosts industrial productivity but also aligns operations with global efforts toward decarbonization and sustainability, fostering a cleaner, more resilient industrial sector for the future.

According to IEA's Net Zero by 2050 scenario, industrial electricity demand must double by 2050, with electrification covering over 50% of industrial energy needs to meet climate goals.

Market Dynamics:

Driver:

Increasing adoption of renewable energy sources

The growing emphasis on sustainability encourages industries to implement electrified systems powered by renewable energy like solar, wind, and hydropower. Replacing conventional fossil fuel-based operations with electric solutions lowers emissions, reduces energy expenses, and ensures regulatory compliance. Integration of renewable energy into industrial electrification enhances energy efficiency and operational reliability while supporting sustainability goals. Government incentives, policies, and global decarbonization initiatives further accelerate the adoption of renewable-powered electrification. Consequently, renewable energy incorporation acts as a major driver of the industrial electrification market, facilitating growth and fostering environmentally friendly industrial practices worldwide.

Restraint:

High initial capital investment

Industrial electrification demands considerable initial expenditure for electric machinery, automation, and energy management systems. For small and mid-sized businesses, the high setup costs may be prohibitive. Retrofitting existing facilities and training personnel adds to overall expenses, creating financial challenges. Although electric systems offer long-term savings, the upfront investment often deters widespread adoption. Consequently, high capital requirements serve as a significant restraint, restricting the pace and extent of electrification adoption in industries, particularly where budget limitations or infrastructure constraints exist.

Opportunity:

Adoption of smart industrial automation

The growing implementation of Industry 4.0 and smart manufacturing technologies offers major opportunities for industrial electrification. Electrified equipment integrated with AI, IoT, and automation enables real-time monitoring, predictive maintenance, and optimized operations. These technologies help reduce energy usage, improve efficiency, and enhance production accuracy. Businesses adopting electric systems with intelligent automation benefit from lower operational costs, minimized downtime, and increased sustainability. The intersection of electrification and digital innovation provides

avenues for enhanced efficiency and competitiveness. As smart manufacturing becomes more widespread, the demand for electrified industrial solutions is set to rise, presenting strong market growth prospects.

Threat:

Competition from conventional energy sources

Traditional energy sources like diesel and natural gas still dominate many industrial sectors because of established infrastructure and lower initial costs. These conventional systems compete with electrification, particularly in areas with limited electricity or renewable energy integration. Industries may continue using fossil fuel-based machinery due to reliability and cost considerations, delaying the shift to electric solutions. The ongoing prevalence of conventional fuels presents a market barrier, restricting the adoption of industrial electrification. Therefore, competition from existing fossil fuel-based technologies is a major threat, potentially slowing market growth and hindering widespread electrification in industrial operations.

Covid-19 Impact:

The COVID-19 outbreak had a notable impact on the industrial electrification market by causing supply chain disruptions, postponing electrification projects, and reducing global industrial output. Lockdowns and movement restrictions forced temporary closures of manufacturing facilities, slowing the deployment of electric machinery and automation technologies. Companies deferred investments in electrification while focusing on essential operations and cost reduction. Furthermore, delays in renewable energy adoption and infrastructure upgrades restrained market expansion. Despite these challenges, the pandemic emphasized the importance of energy-efficient and automated systems, paving the way for renewed opportunities in industrial electrification as industries recovered and prioritized sustainable, resilient modernization.

The electric switchgear segment is expected to be the largest during the forecast period

The electric switchgear segment is expected to account for the largest market share during the forecast period due to its critical role in managing and protecting electrical circuits within industrial systems. Switchgear devices regulate electricity flow, safeguard machinery from faults, and support stable power delivery in automated environments. Their importance increases with the adoption of renewable energy, electric drives, and automated industrial processes, making them fundamental to electrified operations.

Industries invest heavily in switchgear to enhance safety, maintain power reliability, and comply with standards. Because effective power control infrastructure is vital for industrial electrification success, switchgear continues to command the largest segment share in the market.

The smart factories & automation segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the smart factories & automation segment is predicted to witness the highest growth rate due to the accelerated adoption of electrification technologies in automated production environments. Electrification supports advanced monitoring, predictive maintenance, and integrated control systems, all central to smart manufacturing. As industries adopt Industry 4.0 practices and leverage digital technologies, electrified automation solutions gain traction more rapidly than conventional segments such as manufacturing facilities or oil & gas electrification. This trend toward connected, efficient, and adaptive industrial systems underpins the robust growth of the smart factories & automation segment in the electrification market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by swift industrial growth, major infrastructure projects, and growing use of energy efficient electrification technologies in countries like China, India, and Japan. The surge in manufacturing activities and urbanization, combined with supportive policies for renewable energy adoption and electrification initiatives, has strengthened demand across the region. Furthermore, industries are increasingly focusing on reducing emissions and improving efficiency through electrified automation, reinforcing Asia Pacific's leadership position in the market's regional landscape.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by swift industrial development, robust investments in electric technologies, and supportive policies promoting energy efficiency. Countries in the region are modernizing factories with electrified systems, integrating renewable power sources, and implementing automation to meet rising production and sustainability demands. Rapid urbanization and infrastructure expansion also contribute to increased electrification adoption. These dynamics make Asia Pacific the fastest-growing regional segment in the industrial electrification market, outpacing other regions in terms of

growth rate during the forecast period.

Key players in the market

Some of the key players in Industrial Electrification Market include Aisin Seiki Co. Ltd., Continental AG, BorgWarner Inc., Wabco Holdings Inc., Delphi Automotive Plc, Hitachi Automotive Systems Ltd., Denso Corporation, Johnson Controls Inc., JTEKT Corporation, Johnson Electric, Magna International Inc., Eaton Corporation, Mitsubishi Electric Corporation, Valeo SA, ZF Friedrichshafen AG, Rockwell Automation, Bharat Bijlee Limited and Phoenix Contact.

Key Developments:

In December 2025, Mitsubishi Electric Corporation announced that it has invested in and signed a strategic alliance agreement with Tulip Interfaces, Inc., a Massachusetts, USA-based leader no-code platforms for system operations without programming to support manufacturing digitalization. Tulip Interfaces is also an expert in introducing manufacturing-targeted microservices, which divide large-scale systems into small, independent services to enable flexible development and operations.

In December 2025, Denso Corporation and Delphy Groep BV have entered into a Joint Development Agreement, to advance technologies that support stable planned cultivation within data-driven smart horticulture systems. The agreement deepens the collaboration initiated under an April 2025 Memorandum of Understanding, with both companies now formally aligned on developing next-generation cultivation and prediction tools for greenhouse growers.

In October 2025, Continental AG has reached a deal with former managers that will see their insurance pay damages between 40 million and 50 million euros in connection with the diesel scandal. The deal with insurers, subject to shareholder approval, covers only some of the total damages of 300 million euros.

Product Types Covered:

Electric Actuators

Electric Switchgear

Electric HVAC Systems

Power Distribution Units (PDUs)

Electrified Excavation Equipment

Electrified Pumping Systems

Sales Channels Covered:

Direct Sales

Distributor/Retail Channels

Online/E-Commerce Platforms

Applications Covered:

Manufacturing Plants

Oil & Gas Electrification

Smart Factories & Automation

End Users Covered:

Automotive & Transportation

Aerospace & Defense

Chemicals & Petrochemicals

Food & Beverages

Energy & Power

Electronics & Semiconductors

Healthcare & Packaging

Mining & Heavy Industry

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 3032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

Industrial Electrification Market Forecasts to 2034 – Global Analysis By Product Type (Electric Actuators, Ele...

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL INDUSTRIAL ELECTRIFICATION MARKET, BY PRODUCT TYPE

- 5.1 Electric Actuators
- 5.2 Electric Switchgear
- 5.3 Electric HVAC Systems
- 5.4 Power Distribution Units (PDUs)
- 5.5 Electrified Excavation Equipment
- 5.6 Electrified Pumping Systems

6 GLOBAL INDUSTRIAL ELECTRIFICATION MARKET, BY SALES CHANNEL

- 6.1 Direct Sales
- 6.2 Distributor/Retail Channels
- 6.3 Online/E-Commerce Platforms

7 GLOBAL INDUSTRIAL ELECTRIFICATION MARKET, BY APPLICATION

- 7.1 Manufacturing Plants
- 7.2 Oil & Gas Electrification
- 7.3 Smart Factories & Automation

8 GLOBAL INDUSTRIAL ELECTRIFICATION MARKET, BY END USER

- 8.1 Automotive & Transportation
- 8.2 Aerospace & Defense
- 8.3 Chemicals & Petrochemicals
- 8.4 Food & Beverages
- 8.5 Energy & Power
- 8.6 Electronics & Semiconductors
- 8.7 Healthcare & Packaging
- 8.8 Mining & Heavy Industry

9 GLOBAL INDUSTRIAL ELECTRIFICATION MARKET, BY GEOGRAPHY

- 9.1 North America

- 9.1.1 United States
- 9.1.2 Canada
- 9.1.3 Mexico
- 9.2 Europe
 - 9.2.1 United Kingdom
 - 9.2.2 Germany
 - 9.2.3 France
 - 9.2.4 Italy
 - 9.2.5 Spain
 - 9.2.6 Netherlands
 - 9.2.7 Belgium
 - 9.2.8 Sweden
 - 9.2.9 Switzerland
 - 9.2.10 Poland
 - 9.2.11 Rest of Europe
- 9.3 Asia Pacific
 - 9.3.1 China
 - 9.3.2 Japan
 - 9.3.3 India
 - 9.3.4 South Korea
 - 9.3.5 Australia
 - 9.3.6 Indonesia
 - 9.3.7 Thailand
 - 9.3.8 Malaysia
 - 9.3.9 Singapore
 - 9.3.10 Vietnam
 - 9.3.11 Rest of Asia Pacific
- 9.4 South America
 - 9.4.1 Brazil
 - 9.4.2 Argentina
 - 9.4.3 Colombia
 - 9.4.4 Chile
 - 9.4.5 Peru
 - 9.4.6 Rest of South America
- 9.5 Rest of the World (RoW)
 - 9.5.1 Middle East
 - 9.5.1.1 Saudi Arabia
 - 9.5.1.2 United Arab Emirates
 - 9.5.1.3 Qatar

- 9.5.1.4 Israel
- 9.5.1.5 Rest of Middle East
- 9.5.2 Africa
 - 9.5.2.1 South Africa
 - 9.5.2.2 Egypt
 - 9.5.2.3 Morocco
 - 9.5.2.4 Rest of Africa

10 STRATEGIC MARKET INTELLIGENCE

- 10.1 Industry Value Network and Supply Chain Assessment
- 10.2 White-Space and Opportunity Mapping
- 10.3 Product Evolution and Market Life Cycle Analysis
- 10.4 Channel, Distributor, and Go-to-Market Assessment

11 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 11.1 Mergers and Acquisitions
- 11.2 Partnerships, Alliances, and Joint Ventures
- 11.3 New Product Launches and Certifications
- 11.4 Capacity Expansion and Investments
- 11.5 Other Strategic Initiatives

12 COMPANY PROFILES

- 12.1 Aisin Seiki Co. Ltd.
- 12.2 Continental AG
- 12.3 BorgWarner Inc.
- 12.4 Wabco Holdings Inc.
- 12.5 Delphi Automotive Plc
- 12.6 Hitachi Automotive Systems Ltd.
- 12.7 Denso Corporation
- 12.8 Johnson Controls Inc.
- 12.9 JTEKT Corporation
- 12.10 Johnson Electric
- 12.11 Magna International Inc.
- 12.12 Eaton Corporation
- 12.13 Mitsubishi Electric Corporation
- 12.14 Valeo SA

- 12.15 ZF Friedrichshafen AG
- 12.16 Rockwell Automation
- 12.17 Bharat Bijlee Limited
- 12.18 Phoenix Contact

List Of Tables

LIST OF TABLES

Table 1 Global Industrial Electrification Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Industrial Electrification Market Outlook, By Product Type (2023-2034) (\$MN)

Table 3 Global Industrial Electrification Market Outlook, By Electric Actuators (2023-2034) (\$MN)

Table 4 Global Industrial Electrification Market Outlook, By Electric Switchgear (2023-2034) (\$MN)

Table 5 Global Industrial Electrification Market Outlook, By Electric HVAC Systems (2023-2034) (\$MN)

Table 6 Global Industrial Electrification Market Outlook, By Power Distribution Units (PDUs) (2023-2034) (\$MN)

Table 7 Global Industrial Electrification Market Outlook, By Electrified Excavation Equipment (2023-2034) (\$MN)

Table 8 Global Industrial Electrification Market Outlook, By Electrified Pumping Systems (2023-2034) (\$MN)

Table 9 Global Industrial Electrification Market Outlook, By Sales Channel (2023-2034) (\$MN)

Table 10 Global Industrial Electrification Market Outlook, By Direct Sales (2023-2034) (\$MN)

Table 11 Global Industrial Electrification Market Outlook, By Distributor/Retail Channels (2023-2034) (\$MN)

Table 12 Global Industrial Electrification Market Outlook, By Online/E-Commerce Platforms (2023-2034) (\$MN)

Table 13 Global Industrial Electrification Market Outlook, By Application (2023-2034) (\$MN)

Table 14 Global Industrial Electrification Market Outlook, By Manufacturing Plants (2023-2034) (\$MN)

Table 15 Global Industrial Electrification Market Outlook, By Oil & Gas Electrification (2023-2034) (\$MN)

Table 16 Global Industrial Electrification Market Outlook, By Smart Factories & Automation (2023-2034) (\$MN)

Table 17 Global Industrial Electrification Market Outlook, By End User (2023-2034) (\$MN)

Table 18 Global Industrial Electrification Market Outlook, By Automotive & Transportation (2023-2034) (\$MN)

Table 19 Global Industrial Electrification Market Outlook, By Aerospace & Defense (2023-2034) (\$MN)

Table 20 Global Industrial Electrification Market Outlook, By Chemicals & Petrochemicals (2023-2034) (\$MN)

Table 21 Global Industrial Electrification Market Outlook, By Food & Beverages (2023-2034) (\$MN)

Table 22 Global Industrial Electrification Market Outlook, By Energy & Power (2023-2034) (\$MN)

Table 23 Global Industrial Electrification Market Outlook, By Electronics & Semiconductors (2023-2034) (\$MN)

Table 24 Global Industrial Electrification Market Outlook, By Healthcare & Packaging (2023-2034) (\$MN)

Table 25 Global Industrial Electrification Market Outlook, By Mining & Heavy Industry (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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